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Docket No.: 09859/0202758-US0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Yukimasa Shiotsu et al.

Application No.: 10/531,099

Confirmation No.:

Filed: April 7, 2005

Art Unit: N/A

For: THERAPEUTIC AGENTS FOR HORMONE-  
DEPENDENT CANCER

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Pursuant to the Notice issued by the United States Patent and Trademark Office dated July 11, 2003 waiving the requirements of 37 CFR 1.98(a)(2)(i), a copy of United States Patent on PTO/SB/08 is not submitted.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as

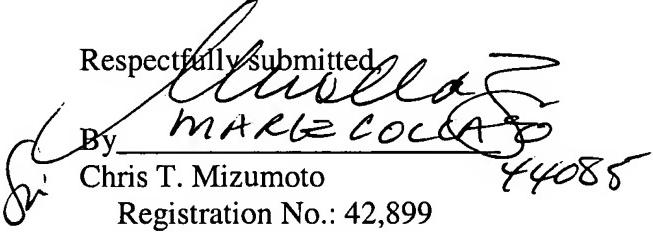
defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: June 28, 2005

Respectfully submitted,

By   
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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
				Application Number	10/531,099
				Filing Date	April 7, 2005
				First Named Inventor	Yukimasa Shiotsu
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	09859/0202758-US0

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-5,616,574	04-01-1997	IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE	
	AB	US-5,830,886	11-03-1998	IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE	
	AC	US-5,567,831	10-22-1996	DUGUESNE UNIVERSITY OF THE HOLY GHOST	
	AD	US-6,011,024	01-04-2000	IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY & MEDICINE	
	AE	US-6,087,347	07-11-2000	TEIKOKU HORMONE MFG. CO., LTD.	
	AF	US-6,762,205	07-13-2004	TEIKOKU HORMONE MFG. CO., LTD.	
	AG	US-20040254241-A1	12-16-2004	INO, Yoji et al.	

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
	BA	WO-98/32763-A1	07-30-1998	SRI INTERNATIONAL	
	BB	WO-01/04086-A1	01-18-2001	KINGSTON UNIVERSITY	
	BC	WO-93/05064-A1	03-18-1993	IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE	
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	BH	WO-00/43408-A2	07-27-2000	DUQUESNE UNIVERSITY OF THE HOLY GHOST	
	BI	WO-02/064142-A1	08-22-2002	JANSSEN PHARMACEUTICA N.V.	
	BJ	EP-1 364 643-A1	11-26-2003	KYOWA HAKKO KOGYO CO., LTD.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

		Date Considered	
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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
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Sheet	2	of	2	Attorney Docket Number	09859/0202758-US0

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	CA	"In Vivo Inhibition of Oestrone Sulphatase and Dehydroepiandrosterone Sulphatase by Oestrone-3-O-Sulphamate", A. Purohit et al, International Journal of Cancer, Vol. 63, pp. 106-111 (1995)		T <sup>2</sup>
	CB	"In Vivo Activity of 4-Methylcoumarin-7-O-Sulfamate, a Nonsteroidal, Nonestrogenic Steroid Sulfatase Inhibitor", Atul Purohit et al, Cancer Research, Vol. 56, pp. 4950-4955 (November 1, 1996)		
	CC	"Steroid Sulfatase Inhibitors", Donald Poirier et al, Expert Opinion on Therapeutic Patents, Vol. 9, pp. 1083-1099 (1999)		
	CD	"Inhibition of Estrone Sulfatase and Proliferation of Human Breast Cancer Cells by Nonsteroidal ( <i>p</i> -O-Sulfamoyl)- <i>N</i> -alkanoyl Tyramines", Kyle W. Selcer et al, Cancer Research, Vol. 57, pp. 702-707 (1997)		
	CE	"Synthesis and Sulfatase Inhibitory Activities of Non-steroidal Estrone Sulfatase Inhibitors", Pui-Kai Li et al, The Journal of Steroid Biochemistry and Molecular Biology, Vol. 59, pp. 41-48 (1996)		
	CF	"Development of ( <i>p</i> -O-sulfamoyl)- <i>N</i> -alkanoyl-phenylalkyl amines as non-steroidal estrone sulfatase inhibitors", Aparna Kolli et al, The Journal of Steroid Biochemistry and Molecular Biology, Vol. 68, pp. 31-40 (1999)		
	CG	"Recent Advances in the Development of Steroid Sulphatase Inhibitors", A. Purohit et al, The Journal of Steroid Biochemistry and Molecular Biology, Vol. 69, pp. 227-238 (1999)		
	CH	"Inhibition of Estrone Sulfatase Activity by Estrone-3-methylthiophosphonate: A Potential Therapeutic Agent in Breast Cancer", L. Duncan et al, Cancer Research, Vol. 53, pp. 298-303 (January 15, 1993)		
	CI	"Phosphonates and Thiophosphonates as Sulfate Surrogates: Synthesis of Estrone 3-methylthiophosphonate, a Potent Inhibitor of Estrone Sulfatase", Nicola M. Howarth et al, Bioorganic and Medical Chemistry Letters, Vol. 3, pp. 313-318 (1993)		
	CJ	"Development of Potent Non-estrogenic Estrone Sulfatase Inhibitors", Pui-Kai Li et al, Steroids, Vol. 63, pp. 425-432 (1998)		

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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